

WEST Search History

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DATE: Thursday, September 07, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L29	I26 and (I9 or I8)	0
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L28	I26	621
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L27	L26 same (cyclic near10 imide)	0
<input type="checkbox"/>	L26	maleinimide	1041
<input type="checkbox"/>	L25	I20 not capillary	286
<input type="checkbox"/>	L24	(I9 or I8) and L23	2
<input type="checkbox"/>	L23	(cyclic same imide) same (add\$3 or additive)	1273
<input type="checkbox"/>	L22	(cyclic same imide) same (add\$5 or additive)	1763
<input type="checkbox"/>	L21	I17 and (cyclic near10 imide)	1
<input type="checkbox"/>	L20	I17 not L19	534
<input type="checkbox"/>	L19	((cyclic near10 imide) or \$10imide) same (binder or resin\$3)	96456
<input type="checkbox"/>	L18	L16 not I13	769
<input type="checkbox"/>	L17	L16 not I13	769
<input type="checkbox"/>	L16	L15 and (cathod\$7 or cation\$7)	772
<input type="checkbox"/>	L15	(L9 or I8) and L14	1501
<input type="checkbox"/>	L14	I1 and ((cyclic near10 imide) or \$10imide)	25093
<input type="checkbox"/>	L13	L10 and (cyclic near5 imide)	4
<input type="checkbox"/>	L12	L10 and cyclic near5 imide	0
<input type="checkbox"/>	L11	L10 and cyclic imide	0
<input type="checkbox"/>	L10	(L9 or I8) and I6	1159
<input type="checkbox"/>	L9	(electrocoat\$7 or electrophore\$7 or cataphore\$7 or ((cation\$7 or cathodic\$7) adj deposit\$7) or (electrodepositi\$7 near3 (coating or bath or composition))).ti.	19968
<input type="checkbox"/>	L8	(electrocoat\$7 or electrophore\$7 or cataphore\$7 or ((cation\$7 or cathodic\$7) adj deposit\$7) or (electrodepositi\$7 near3 (coating or bath or composition))).ab.	36539
<input type="checkbox"/>	L7	L6 and I4	0

<input type="checkbox"/>	L6	l1 and ((cyclic near5 imide) or \$5imide)	11208
<input type="checkbox"/>	L5	L4 and l3	0
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	US-5702581-\$.DID. OR US-5905103-\$.DID.	2
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L3	l1 and ((cylic near5 imide) or \$7imide)	21809
<input type="checkbox"/>	L2	l1 and ((cylic near5 imide) or \$imide)	10358
		electrocoat\$7 or electrophore\$7 or cataphore\$7 or ((cation\$7 or	
<input type="checkbox"/>	L1	cathodic\$7) adj deposit\$7) or (electrodepositi\$7 near3 (coating or bath or composition))	161839

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 13:52:51 ON 07 SEP 2006)

FILE 'CAPLUS' ENTERED AT 13:53:08 ON 07 SEP 2006

L1 0 S CYLIC L IMIDE
L2 0 S CYCLIC L IMIDE
L3 0 S CYCLIC SAME IMIDE
L4 0 S CYCLIC NEAR10 IMIDE
L5 0 S CYCLIC 10 W IMIDE
L6 0 S CYCLIC 10W IMIDE
L7 932 S CYCLIC (10W) IMIDE
L8 15 S L7 AND (ELECTROPHORE? OR ELECTROCOAT? OR ELECTRODEPOSIT?)

=> d 13 all

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:456193 CAPLUS
DN 109:56193
ED Entered STN: 19 Aug 1988
TI Electrically insulating sheets having electrodeposited layers of
polyamides and/or polyimides
IN Okawa, Koji; Katsuo, Ryuji; Yoshioka, Michihiko; Suketani, Shigenori
PA Mitsubishi Densen Kogyo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 7
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM H05K003-44
ICS B32B015-08; C09D003-49; C09D005-44; H01B017-62
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 76

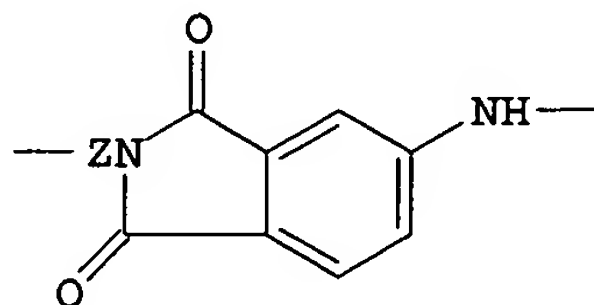
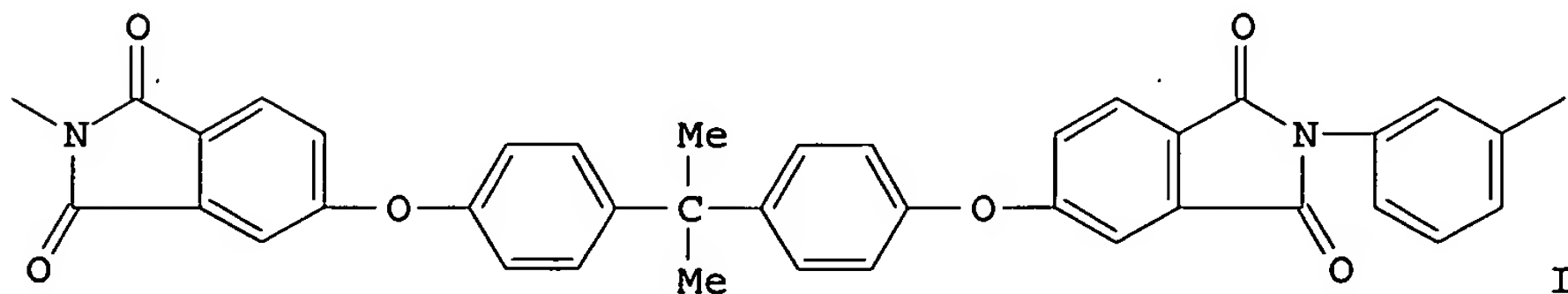
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63017599	A2	19880125	JP 1986-161548	19860709
PRAI	JP 1986-161548		19860709		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 63017599	ICM	H05K003-44
	ICS	B32B015-08; C09D003-49; C09D005-44; H01B017-62
	IPCI	H05K0003-44 [ICM,4]; B32B0015-08 [ICS,4]; C09D0003-49 [ICS,4]; C09D0005-44 [ICS,4]; H01B0017-62 [ICS,4]; H01B0017-56 [ICS,4,C*]
	IPCR	H05K0003-44 [N,A]; H05K0003-44 [N,C*]

GI



II

AB The title sheets for circuit boards and electronic parts are prepared by coating metal anodes with emulsions of. polymers (A) having $\geq 90\%$ cyclic imide groups, polymers having amide groups, and/or polymers (B) having amide groups and $\geq 90\%$ imide groups by electrodeposition. A May have repeating units of I and B may have repeating units of II (Z = divalent moiety containing aromatic ring). Thus, a degreased Al anode was dipped in an emulsion of ULTEM 1000 (polyether imide) for 30 s at 200 V d.c., and the plate was dried to form a 40- μ coating. The prepared substrate had elec. breakdown voltage 7.5 kV, showed no change after 1 h at 200°, and had excellent appearance. Al plate coated with a polyimide varnish by electrodeposition had elec. breakdown voltage 3.2 V.

ST insulation substrate electrodeposition coating; polyamide polyimide emulsion insulation coating; polyether polyimide emulsion insulation coating; elec circuit board insulation coating

IT Polyamides, uses and miscellaneous
Polyimides, uses and miscellaneous
RL: USES (Uses)
(coatings, electrodeposited, on metal anodes, for insulation)

IT Coupling agents
(polyamide or polyimide electrodeposition coatings containing, for improved adhesion to metals)

IT Electric insulators and Dielectrics
(coatings, heat-resistant, electrodeposited, polyamides and/or polyimides, for metal sheets for circuit boards)

IT Polyimides, uses and miscellaneous
RL: USES (Uses)
(polyamide-, coatings, electrodeposited, on metal anodes, for insulation)

IT Polyimides, uses and miscellaneous
RL: USES (Uses)
(polyether-, coatings, electrodeposited, on metal anodes, for insulation)

IT Polyamides, uses and miscellaneous
Polyethers, uses and miscellaneous
RL: USES (Uses)
(polyimide-, coatings, electrodeposited, on metal anodes, for insulation)

IT Electric circuits
(printed, boards, insulating substrates, metal anodes coated with polyamides and/or polyimides as)

IT 7429-90-5, Aluminum, uses and miscellaneous
RL: USES (Uses)
(coated with polyimides and/or polyamides by electrodeposition, for elec. insulation)

IT 61128-24-3, ULTEM 1000 115537-24-1
RL: USES (Uses)
(coatings, electrodeposited, on metal anodes, for insulation)

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